SIROVATKA, O:

SIROVATKA, O. Oldest miners' songs in the Posice - Oslavany coal basin. p. 43.

Vol. 5, no. 1, 1957
CESKOSLOVENSKA ETNOGRAFIE
GEOGRAPHY & GEOLOGY
Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

SIROVATSKIY, S. I.

"On the Theory of Discontinuities in Magnetic Hydrodynamics." Cand Phys-Math Sci, Physics Inst imeni P. N. Lebedev, Acad Sci USSR, 24 Dec 54. (VM, 16 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

Country   : Yugoslavia   H-17

Category=   :

Abs, Jour. :   39685

Author   : Sirovica, A.
Institut.   : Not given
Title   : Salve Bases Listed in the Contemporary Pharmacopoias
              of A Number of Countries

Orig. Pub. : Arkhiv Farmats, 8, No 1, 69-75 (1958)

Abstract   : The author discusses a number of substances used in
              the pharmacopoias of various countries as bases for
              ointments with a view to their introduction in
              Yugoslav pharmaceutic practice.

                                                 I. Matveyev

Card: 1/1

H-71

Chemical Technology. Drugs. Vitamins. Anti-   H
biotics.

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 74950.

Author   : Mikrovich, Sirovites.
Inst   : Not given.
Title   : Stabilization of Sirupus Ferrosi Iodidi.

Orig Pub: Acta pharmac. jugosl., 1957, 7, No. 3, 157-162.

Abstract: From the investigations carried out, it was es-
          tablished that the reason for the difficulties
          encountered in the preparation of Sirupus Fer-
          rosi iodidi (I) by the method of Yugoslavian
          Pharmacopeia 2 is the surface oxidation of start-
          ing materials: Ferrum pulver. and Ferrum reduct.,
          after their prolonged storage.

Card 1/2

3

SIROVSKIY, B.A.

The forthcoming festival. Geog. v shkole 20 no.2:67-68 Mr-Ap '57.
(MLRA 10:4)

1. Shrednyaya shkola no. 248 goroda Moskvy.
   (Moscow--Youth--Congresses)

SIROVSKIY, I.A.;   FOMIN, A., redaktor.

[Valuable experience of the wholesale issue branch office of the Main
Footwear Trading Corporation of the "Paris Commune" Factory] TSennyi
opyt optovoi vykhodnoi bazy glavebuv'torga pri fabrike "Parizhskaia
kommuna," Moskva, Gos.izd-vO torgovoi lit-ry, 1955. 39 p. (MIRA 8:5)
         (Shoe industry)

SIROVY, Vladimir, inz. CSc.

Characteristics of the clay fraction of soils on loesses
and loess loams. Rost vyroba 10 no. 5/6:555-566 My-Je '64.

1. Central Research Institute of Plant Production, Prague-
Ruzyne.

STROMSHKINA, A.A.

Mikhaylov, R. A. and Stromshkina, A.A. "Short method of curing syphilis by (sovarsenom)," Nauch. zapiski sor'k. in-ta dermatologii i venerologii i Kafedry kozhno-verenich. bolezney KMI im. Kirova, Issue 12, 1948, s. 147-59

SO: U-3264, 1° April 1953, (Letopis 'Zhurnal 'nykh Statey, No. 3, 1949)

SIROVSKIY, M. (Noril'sk); FOMICHEV, Yu., slesar'-mekhanik

"I can not keep silent." Za rul. 21 no.7:14 Jl '63. (MIRA 16:8)

1. Moskovskoye konstruktorskoye byuro kinoapparatury (for Fomichev).   (Automobile drivers)

SIROZHDINOV, S.Kh.; MAMATOV, M.

Local theorem for densities. Dokl. AN SSSR 142 no.5:1036-1037
F '62.   (MIRA 15:2)

1. Tashkentskiy gosudarstvennyy universitet im. V.I.Lenina.
Predstavleno akademikom A.N.Kolmogorovym.
                    (Sequences(Mathematics))

SIRTS, A. I.

Intestines - Wounds and Injuries

Enterovenous fistula due to gun-shot wounds. Khirurgiia no. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, ___December___ 195*/*, Uncl.
2

SIRTS, A.I.

Modification of Babcock's operation. Khirurgiia no.6:81 82 Je '54.
(MLRA 7:9)

1. Iz khirurgicheskogo otdeleniya (zav. otdeleniyem A.I.Sirts)
Slavutskoy rayonnoy bol'nitsy Kamenets-Podol'skoy oblasti (glavnyy
vrach T.M.Gutovskiy)
        (VARICOSE VEINS, surgery,
            *Babcock's operation, modified)

SIRTS, A.I. (g.Slavuta, Khmel'nitskoy oblasti, ul. Budennogo, d.27)

Application of the Pavlovian doctrine in surgery. Vest.khir. 77
no.6:114-120 Je '56.   (MLRA 9:8)
          (SURGERY.
               Pavlovian theory in (Rus))

SIPTS, A.P.

Skin plastics in large wounds. Sov. med. 20 no.1:68-71 Ja '56
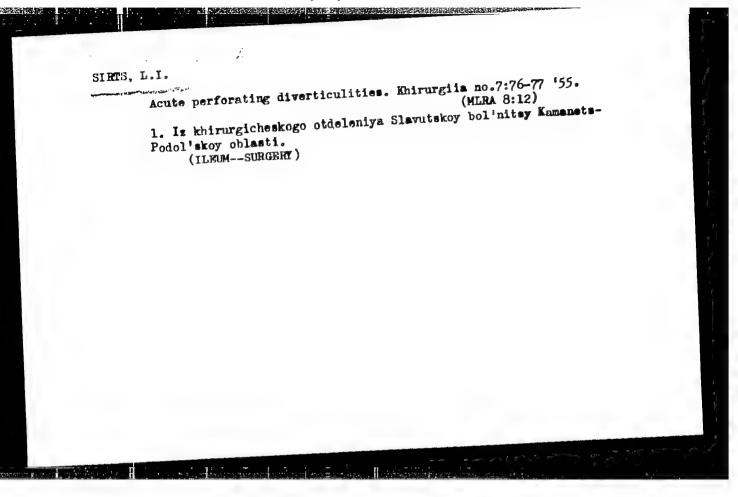(MLRA 9:5)

1. Iz Slavutskcy rayonnoy bol'nitsy Kamenets-Podol'skcy oblasti.
(SKIN TRANSPLANTATION
in large wds.)
(WOUNDS AND INJURIES, surg.
skin transpl. in large wds.)

SIRTS, L.I.

Acute perforating diverticulities. Khirurgiia no.7:76-77 '55.
(MLRA 8:12)

1. Iz khirurgicheskogo otdeleniya Slavutskoy bol'nitsy Kamenets-
Podol'skoy oblasti.
(ILEUM--SURGERY)

SIRUCEK, J.

Experiences in preparing standard industrial designs.

p. 164
Vol. 5, no. 4, 1955
ZA SOCIALISTICKOU VEDU A TECHNIKU
Praha, Czechoslovakia

Source: Monthly List of East European Accesions, (EEAL), LC, VOL. 5, no. 2
February 1956, Uncl.

SCHWARZBACH, Erik, promovany biolog; STRUCEK, Jiri, inz.

Fast methods of determining the content of nitrogen substances in plants. Pt.5. Rost vyroba 11 no.3:331-336 Mr '65.

1. Main Special Station of Mutation Breeding, Stupice (for Schwarzbach). 2. Main Special Cereal Breeding Station, Kromerice (for Strucek). Submitted February 27, 1964.
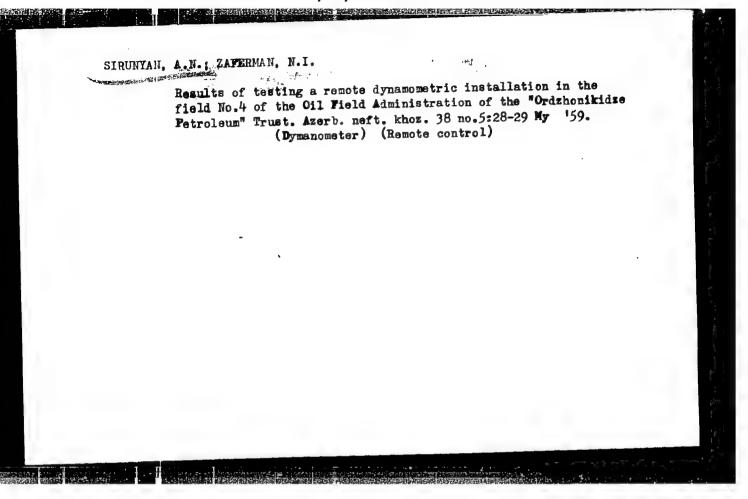
STRUCEK, V.

   Ivanovsky, E. Crushing equipment used in subsurface mining. p. 81.
   RUDY, Praha, Vol. 3, no. 3, Mar. 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,
     Uncl.

SIRUNYAN, A.N.; ZAFERMAN, N.I.

Results of testing a remote dynamometric installation in the field No.4 of the Oil Field Administration of the "Ordzhonikidze Petroleum" Trust. Azerb. neft. khoz. 38 no.5:28-29 My '59.
(Dynamometer) (Remote control)

SIRVIDAS, A. P.

Cand Bio Sci, Diss -- "On the problem of temperature and heat exchange of plants". (Vil'nyus, 1961. 17 pp, 20 cm (Min of Higher and Inter Spec Educ USSR. Vil'nyus State U imeni V. Kapsukas), 250 copies, Not for sale (KL, No 9, 1961, p 180, No 24317). /61-50347/

SAZONOV, A.M.; SIRVIDAS, V.I.

Energy distribution of gamma radiation in solid medium. Atom. energ.
15 no.5:420-422 N '63.   (MIRA 16:12)

SIRYACHENKO, E.i.; RYZHENKOV, V.Ye.

Some **glycocorticoidlike** roperties of echinatic, meristotropic and malationic acids. Mast.rez. 1 no.3:376 '65.   (MIRA 18:10)

1. Institut eksperimental'noy meditsiny AMN SSSR, Leningrad.

SLAVOROSOV, Aleksey Kharitonovich; BUTYLINA, A.I., retsenzent; BUKRINSKIY, V.A., retsenzent; SIRYACHENKO, F.N., ved. red.

[Mine surveyors and their assistants] Marksheiderskii rabochii i s"emshchik. Izd.3., perer. i dop. Moskva, Nedra, 1964. 267 p.   (MIRA 17:12)

SIRYACHENKO, F.N.

BABOKIN, I.A., redaktor; BALBACHAN, Ya.I, redaktor; BARABANOV, F.A., redaktor; BUCHNEV, V.K., redaktor; VLADIMIRSKIY, V.V., redaktor; GRIGOR'YEV, S. Ye., redaktor; DOKUKIN, A.V., redaktor; ZHABO, V.V. redaktor; ZADEMIDKO, A.N., redaktor; ZAITSEV, A.P., redaktor; IL'ICHEV, A.S., redaktor; KAGAN, V.Ya., redaktor; KRASNIKOVSKIY, G.V., redaktor; KRASOZOV, I.P., redaktor; KRIVONOGOV, K.K., redaktor; LALAYANTS, A.M., redaktor; MOGILEVSKIY, N.M., redaktor; ONIKA, D.G., redaktor; OSTROVSKIY, S.B., redaktor; OSTROVSKIY, S.M., redaktor; PEYSAKHOVICH, G.I., redaktor; POCHENKOV, K.I., redaktor; SIRYACHENKO, F.N.;redaktor. SKOCHINSKIY,A.A., redaktor; STUGAREV, A.S., redaktor; SKORKIN, K.I.; SKURAT, V.K., redaktor; SOBOLEV. G.G., redaktor ;TERPITOREV, A.M., redaktor; KHUDOCOVTSEV, N.M., redaktor; TSYPKIN, V.S., redaktor; SHEVYAKOV, L.D., redaktor; SHELKOV, A.A., redaktor;ANDREYEV, G.G., tekhnicheskiy redaktor.

[Safety rules in coal and shale mines] Pravila bezopasnosti v ugol'nykh i slantsevykh shakhtakh. Moskva, Ugletekhizdat, 1951. 207 p. (MLRA 9:1)

1. Russia (1923- U.S.S.R) Ministerstva ugol'noy promyshlennosti. (Coal mines and mining-Safety measures)

SIRYACHENKO. F. N.

For miners. Sov.profsoiuzy 7 no.9:63 My '59. (MIRA 12:8)

1. Zamestitel' glavnogo redaktora Ugletekhizdata.
   (Bibliography--Mining engineering)

S. R y a c h e n k o, K. P.

DODIN, A.Ya., inzh.; KRYUKOV, I.I., dotsent; PROHIN, A.I., inzh.;
SIRYACHENKO, K.P., inzh.; STOVAS, M.V., dotsent; EPSHTEYN, M.M.,
dotsent.

Engineering and geodetic observations on deformations in transport-
and-dumping bridges. Ugol' Ukr. 3 no.7:24-27 Jl '59.
(MIRA 12:11)

1.Dnepropetrovskiy gornyy institut.
      (Mine surveying)

KRYUKOV, I.I., dotsent; SIRYACHENKO, K.P., inzh.; STOVAS, M.V., dotsent

Using an engineering geodetic method to determine deformation
of transporter bridges. Izv.vys.ucheb.zav.; gor.zhur. 5
no.2:82-85 '62.   (MIRA 15:4)
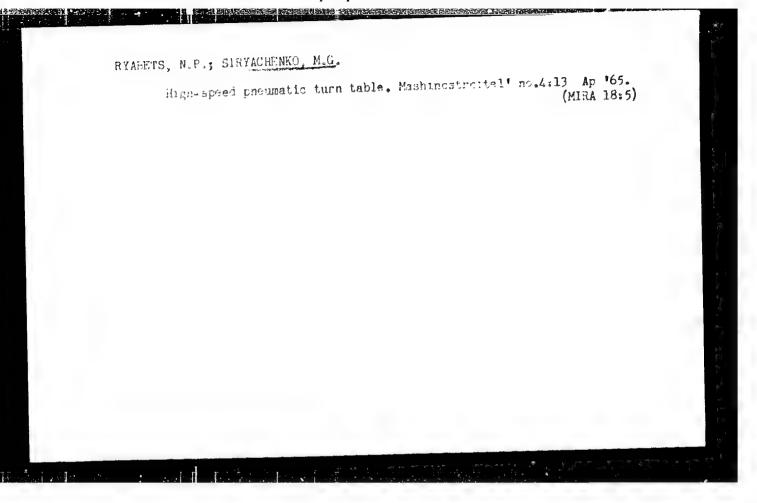
1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy
instituta imeni Artema. Rekomendovana kafedroy geodezii.
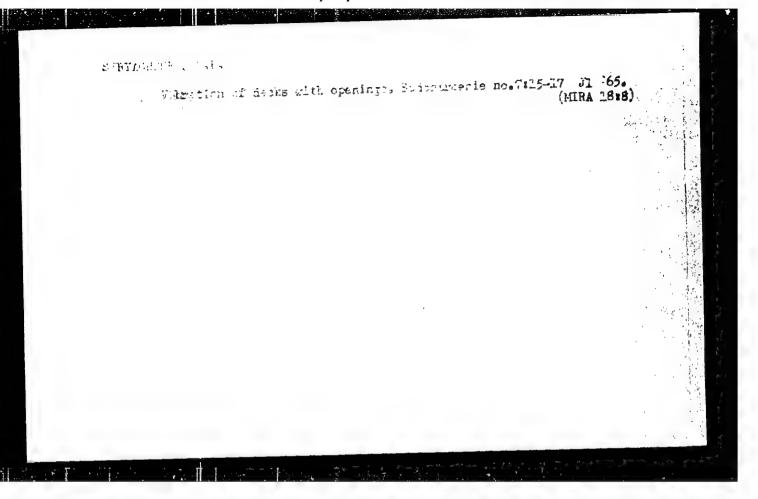   (Transporter bridges)

GORYUNOV, A.I., inzh.; KRYUKOV, I.I., dotsent; SIRYACHENKO, K.P., inzh.;
STOVAS, M.V., dotsent

New method of determining corrections for bends in the metal con-
struction of transporter bridges. Izv. vys. ucheb. zav.; gor. zhur.
6 no.7:87-90 '63.   (MIRA 16:9)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy in-
stitut imeni Artema. Rekomendovana kafedroy geodezii Dnepropetrovs-
kogo instituta.
                           (Transporter bridges)

RYABETS, N.P.; SIRYACHENKO, M.G.

High-speed pneumatic turn table. Mashinostroitel' no.4:13 Ap '65.
(MIRA 18:5)

STRTAGETS, . . .

Vibration of desks with openings, Suitsunerie no.7:15-17 J1 :65.
(MIRA 28:8).

BELYAVSKAYA, L. I.; SIRYAK, A. I.

"Concerning the effect of gamma irradiation on the electroconductance of alkaline silicate glasses in intensive electric fields."

report submitted for 4th All-Union Conf on Structure of Glass, Leningrad, 16-21 Mar 64.

L 4990-66   EWP(e)/EWT(m)/EPF(c)/EWP(i)/EPF(n)-2/EWA(h)/EWA(1)   GG/WH

ACC NR: AP5027434   SOURCE CODE: UR/0181/65/007/011/3427/3428

AUTHOR: Belyavskaya, L. M.; Siryak, A. I.

ORG: Tomsk State University (Tomskiy gosudarstvennyy universitet)

TITLE: Some characteristics of magnetoresistance of alkali silicate glasses after gamma-irradiation and thermal treatment

SOURCE: Fizika tverdogo tela, v. 7, no. 11, 1965, 3427-3428

TOPIC TAGS: irradiation, gamma irradiation, mechanical heat treatment, magnetoresistance, silicate glass

ABSTRACT: To obtain more information on the character of the transverse effect of magnetoresistance (E $\perp$ H) specimens of sodium silicate glasses of different composition were investigated in a magnetic field (from 0.5 to 1.9 weber/m^2) after γ-irradiation with doses of 10^6 to 10^7 r at an intensity of 20 r/sec at room temperature. Co^{60} with a quantum energy $h\nu = 1.25$ Mev was the irradiation source. The content of Na_2O in the specimens (10 x 2 x (0.3—1.1) mm) was 16, 20, 26, 33, 36, and 50 mol %. The smallest specimen was adjusted in the direction of the magnetic field and the largest, in the direction of the electric field. All measurements were carried out for the direct and reverse directions of the magnetic field. The direction of irradiation corresponded to the direction of the magnetic field. The following results were obtained: 1) The previously detected effect of transverse magnetoresistance in

Card 1/2

09010315

L 09876-67   EWP(c)/EWT(m)   GG/WH
ACC NR: AR6032546   SOURCE CODE: UR/0139/66/000/004/0031/0035

55

AUTHOR: Siryak, A. I.

ORG: Siberian Physicotechnical Institute imeni V. D. Kuznetsov (Sibirskiy fiziko-tekhnicheskiy institut)

TITLE: Characteristics of the electrical conductivity of alkali silicate glass in strong electric fields after exposure to gamma radiation

SOURCE: IVUZ. Fizika, no. 4, 1966, 31-35

TOPIC TAGS: electric conductivity, electric field, silicate glass, gamma radiation, alkali silicate glass, volume charge, high voltage polarization

ABSTRACT: An explanation is given of the stable radiational variations in electrical conductivity in strong electric fields in sodium alkali silicate glass. The concept of the accumulation of volume charge, produces high-voltage polariza-tion in the presence of electrons induced by gamma radiation, is applied. It is assumed that the recombination of electrons and sodium cations and their dissocia-tion are controlled by a strong electric field. [Author's abstract]
SUB CODE: 20/ SUBM DATE: 07Mar65/ ORIG REF: 009/

Card 1/1

REZNICHENKO, V.A.; TKACHENKO, V.A.; SIRYAPOV, G.V.; KOZLOV, V.M.;
    SIDORENKO, G.D.

Reduction of ilmenite concentrates in a fluidized bed. Titan
i ego splavy no.5:60-64 '61.   (MIRA 15:2)
                        (Titanium--Metallurgy)
                            (Fluidization)

REZNICHENKO, V.A.; SIRYAPOV, G.V.; SOLOV'YE, V.I.

Two-stage smelting of ilmenite concentrates. Titan i ego splavy
no.9:96-104 '63.   (MIRA 16:9)
                    (Titanium—Electrometallurgy)

Country	: USSR
Category=	: Pharmacology and Toxicology. Hormonal Prepa-
	rations
Abs. Jour.	: Ref Zhur-Biol, No 13, 1958, No 61484
Author	: Yegorova, L. I.; Siryatskaya, L. N.
Institut.	: -
Title	: Blood Changes in Patients with So-Called Non-Specific Infectious Arthritis Treated with Cortisone
Orig. Pub.	: Sov. meditsina, 1957, No 3, 81-85
Abstract	: Cortisone was administered in daily doses of 25-300 mg. with a total dose of 2.5-3.5 g. per course of treatment. Observation of 70 patients showed that the use of cortisone diminishes edema of the joints, lowers temperature and in- creases the motion range. Also observed were diminution in the absolute and relative number of eosinophils, slowing of the erythrocyte se- dimentation rate and an increase in the number of leukocytes and in prothrombin content.
Card:	1/2

PSHEZHETSKIY, S.Ya.; KAMENETSKAYA, S.A.; GRIBOVA, Ye.I.; PANKRATOV, A.V.;
    MOROZOV, N.M.; POSPELOVA, I.N.; APIN, A.Ya.; SIRYATSKAYA, V.N.;
    SLAVINSKAYA, N.A.; CHEREDNICHENKO, V.M.

Kinetics of the decomposition and explosion of ozone.
Probl.fiz.khim. no.2:27-38 '59.   (MIRA 13:7)

1. Laboratoriya kinetiki gazovykh reaktsiy Nauchno-issledovatel'-
skogo fiziko-khimicheskogo instituta im. L.Ya.Karpova.
                (Ozone) (Explosions)

05833
SOV/76-33-10-31/45

5(4)
AUTHORS: Pshezhetskiy, S. Ya., Morozov, N. M., Kamenetskaya, S. A., Sir-
yatskaya, V. N., Gribova, Ye. I.

TITLE: Kinetics of the Thermal Decomposition of Ozone

ABSTRACT: According to A. V. Pankratov and S. Ya. Pshezhetskiy (Ref 1),
the quantum yield of photochemical ozone decomposition in li-
quid phase attains a value of 20. Investigations of the kinetics
of thermal ozone decomposition have not fully explained this
problem. Thus, values of 23-31 kcal were given for the activa-
tion energy in various publications. Further investigations of
this problem were made by L.S. Kassel' (Ref 2), Benson, and
Axworthy (Ref 3). In this article, the authors measured the
reaction kinetics of thermal ozone decomposition at small,
medium, and high ozone concentrations and various reaction sur-
faces within a wide temperature range. Experiments were made
under static and dynamic conditions (at low concentration). The
decomposition rate of ozone was determined at a pressure of
30-760 mm Hg and various initial ozone-hydrogen ratios within

Card 1/3

Kinetics of the Thermal Decomposition of Ozone

the temperature range 70-170°. The results of some typical experiments are listed (Tables 1-3). The velocity constant of de-composition, calculated according to the equation of second order, varies in dependence on the ratio $O_2:O_3$ as well as the "actual" activation energy which rises from 18 (95-97% O_3) up to 27 kcal (2-3% O_3). At very high and low ozone concentrations, the equation of second order holds with sufficient approxima-tion. Extension of the reaction surface by 4.7 times does not change the reaction rate (Table 4). The factor before the ex-ponent also varies with the composition of the gas mixture (Table 5). In concentrated mixtures, it is smaller by $10-10^2$ than the number of double collisions, and 10^2-10^4 times greater than the latter in dilute mixtures. An equation for the reaction rate was set up by the method of constant concentration which was suggested by Schumacher and Glissmann (Ref 10). The factors before the exponents and the activation energies were calculated for the four elementary reactions of the process (Table 6). The decomposition of ozone at the surface seems to be heterogeneous and of first order as confirmed by data by Markevich (Refs 6,7). There are 3 figures, 6 tables, and 24 references, 8 of which are Soviet.

Card 2/3

5.3700

77388
SOV/79-30-1-49/78

AUTHORS:

Zhigach, A. F., Siryatskaya, V. N., Antonov, I. S.,
Makayeva, S. Z.

TITLE:
Concerning the Mechanism of Diborane Reaction With
Olefins

PERIODICAL:

ABSTRACT:

Diborane reacts with excess olefins, and forms, succes-
sively, alkyldiboranes $(RB_2H_5; R_2B_2H_4; R_3B_2H_3;$ etc.$)$
according to the reactions:

$$B_2H_6 \rightleftarrows 2BH_3 \text{ (IV)},$$
$$B_2H_6 + BH_3 \longrightarrow B_3H_9 \text{ (V)},$$
$$B_3H_9 + C_nH_{2n} \longrightarrow BH_3 + B_2H_5C_nH_{2n+1} \text{ (VI)},$$
$$B_2H_5C_nH_{2n+1} + BH_3 \longrightarrow B_3H_8C_nH_{2n+1} \text{ (VII)},$$
$$B_3H_8C_nH_{2n+1} + C_nH_{2n} \longrightarrow BH_3 + B_2H_4(C_nH_{2n+1})_2 \text{ (VIII)}$$
$$B_3H_4(C_nH_{2n+1})_3 + C_nH_{2n} \longrightarrow BH_3 + 2B(C_nH_{2n+1})_3 \text{ (IX)}$$

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Concerning the Mechanism of Diborane
Reaction With Olefins

77388
SOV/79-30-1-49/78

Theoretically, a B atom can join either of the C=C carbon
atoms and form isomers. According to D. Hurd, diborane
gave with olefins equal amounts of isomers (X) and (XI);
for example:

$$B_2H_6 + 6 \begin{array}{c} CH_3 \\ CH_3 \end{array} \hspace{-0.3em} C=CH_2 \rightarrow 2B \left(\begin{array}{c} CH_3 \\ CH_3 \\ CH_3 \end{array} \hspace{-0.3em} C \right)_3 \quad (X)$$

$$B_2H_6 + 6 \begin{array}{c} CH_3 \\ CH_3 \end{array} \hspace{-0.3em} C=CH_2 \rightarrow 2B \left(\begin{array}{c} CH_3 \\ CH_3 \end{array} \hspace{-0.3em} CH-CH_2 \right)_3 \quad (XI)$$
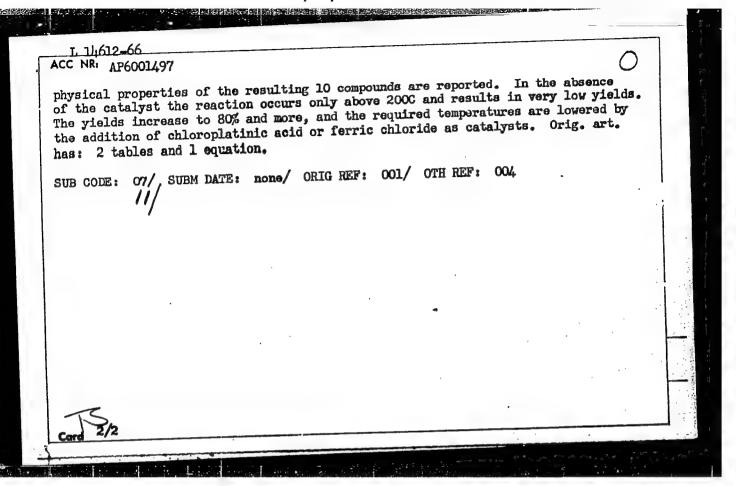
It was also reported (J. Am. Chem. Soc., 1956, Vol 78,
p 5694; Chem. Eng. News, 1957, Vol 6, Nr 28) that the
olefins, on reduction with sodium borohydride in the
presence of $AlCl_3$, gave the corresponding primary alco-
hols. In view of the contradictory data on the order of
diborane addition to olefins, the authors investigated
the mechanism of this reaction. Propylene with diborane
on heating to 230-250° C gave tripropylboron in 91%

Card 2/3

AUTHORS: Shapatin, A. S.; Golubtsov, S. A.; Solov'yev, A. A.; Zhigach, A. F.; 37
Siryatskaya, V. N.

ORG: none

TITLE: Addition of hydrides of silicon chlorides to alkenyl carboranes 7,14,5

SOURCE: Plasticheskiye massy, no. 12, 1965, 19-21

TOPIC TAGS: silane, organic synthetic process, catalysis, silicon compound, catalyst, ferric chloride

ABSTRACT: A simplified method for synthesizing carborane siliconorganic monomers is offered. It consists of adding chlorosilicon hydrides to alkenyl carboranes, according to the equation:

$$Cl_3SiH + CH_2=\underset{B_{10}H_N}{C-CH} \longrightarrow Cl_3Si-(C_2H_4)\underset{B_{10}H_{10}}{C-CH}.$$

The following reactions were studied: methyldichlorosilane with carborane derivatives containing vinyl, isopropenyl, propenyl, or butenyl groups; trichlorosilane and dimethyl chlorosilane with vinyl and isopropenyl carborane; ethyl dichlorosilane and phenyldichlorosilane with isopropenylcarborane. Elementary analysis and

UDC: 678.84

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2

L 14612-66

ACC NR: AP6001497

physical properties of the resulting 10 compounds are reported. In the absence of the catalyst the reaction occurs only above 200C and results in very low yields. The yields increase to 80% and more, and the required temperatures are lowered by the addition of chloroplatinic acid or ferric chloride as catalysts. Orig. art. has: 2 tables and 1 equation.

SUB CODE: 07/ SUBM DATE: none/ ORIG REF: 001/ OTH REF: 004

Card 2/2

L 13357-66 (A)   EWT(m)/EWP(j)/T/EWA(c)   RPL   WW/JW/JWD/RM

AUTHORS: Sobolevskiy, M. V.; Zhigach, A. F.; Grinevich, K. P.; Sarishvili, I. G.;
Siryatskaya, V. N.; Kozyreva, Ye. M.

ORG: none

TITLE: Synthesis of polyalkylcarboranesiloxanes

SOURCE: Plasticheskiye massy, no. 1, 1966, 21-22

TOPIC TAGS: polymer, boron compound, borane, organosilicon compound, organoboron
compound

ABSTRACT: To extend the available data on the properties of carboranesiloxane
polymers described in J. Polymer Sci., 2 No. 1 (1964); 2 No. 7 (1964), the following
polyalkylcarboranesiloxane polymers were synthesized

Card 1/2   UDC: 678.84

L 13357-66
ACC NR: AP6002477

where

$$R:CH_3, C_2H_5, C_6H_5$$

The effects of pressure, temperature, and reaction time on the degree of reaction were studied. The weight loss of the polymers at 140C and 210C was determined as a function of time, and the results are shown graphically in Fig. 1.
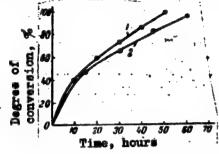

Fig. 1. Dependence of the degree of conversion on the reaction time for the reaction between polyethylhydrosiloxane and isopropenylcarborane at 250C. 1 - polyethylhydro-polyethylcarboranesiloxane; 2 - polyethylcarboranesiloxane.

It is noted that polyethylcarboranesiloxane has a greater thermal stability than polyethylhydropolyethylcarboranesiloxane and the initial polyethylhydrosiloxane. Orig. art. has: 4 graphs and 2 equations.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 003

Card 2/2

AUTHOR: Vilkov, L. V.; Mastryukov, V. S.; Zhigach, A. F.; Siryatskaya, V. N.

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Electron diffraction study of the neocarborane molecule

ABSTRACT: The structure of the neocarborane molecule $B_{10}C_2H_{12}$ has been studied by the electron diffraction method in the gaseous phase. Neocarborane was prepared by thermal isomerization of ortho-carborane at 480C for 30 hr. Experimental curves of the molecular scattering component $sM(s)$ and of the radial distribution $f(r)$, and a table of the positions of maxima on the $f(r)$ curve are given in the source. Experimental data were compared with the respective data for a model of a regular icosahedron with carbon atoms meta to each other. This model was in accordance with earlier assumptions on the structure of neocarborane, and the chemical and physical properties of the compound.

Card 1/2   UDC: 539.27

ACC NR: AP7001492

It was shown that this icosahedral model is in complete agreement with electron diffraction data. The basic parameters of the neocarborane molecule are: $r(BB) = r(BC) = 1.77_5 \pm 0.01$ Å; $r(BH) = 1.21 \pm 0.03$ Å; $[r(CH) = 1.10$ Å]. Orig. art. has: 2 figures and 1 table. [W. A. 77]
[BO]

SUB CODE: 07, 21/ SUBM DATE: 16Mar66/ ORIG REF: 005/ OTH REF: 012

Card 2/2

SHAL'MIN, S., inzh.; SIRYATSKIY, A., inzh.; SENNIKOV, Yu., inzh.

Stand for assembling reducing gears. Avt. transp. 43 no.12:
30, 35   D '65.
(MIRA 18:12)

SIRYK, G.V.

Conformal mapping of close regions. Dop. ta pev. L'viv.un. no.6
pt 2:113-119 '55.
(MLRA 10:3)
(Conformal mapping)

SIRYK, G.V.

Approximate method of conformal mapping. Dop. ta pov. L'viv.un.
no.6 pt 2:119-122 '55.
(MIRA 10:3)
(Conformal mapping)

SUBJECT   USSR/MATHEMATICS/Theory of functions   CARD 1/1   PG - 520
AUTHOR   SIRYK G.V.
TITLE   On the conformal mapping of little different regions one onto
             another.
PERIODICAL   Uspechi mat.Nauk 11, 5, 57-60 (1956)
             reviwed 1/1957

For the determination of the conformal mapping of the circle, the halfplane,
the strip and a ring on an "almost-circle", an "almost-halfplane" etc., for
simply connected regions the formulas of Schwarz (for the halfplane e.g.

$$F(z) = \frac{1}{\pi i} \int_{-\infty}^{+\infty} Re\ F(t)\ \frac{dt}{t-z}\ ),\ \text{for ring regions a formula of Villat (Rend.d.}$$

Circ.Mat. Palermo 33, (1912)) are used and after certain limit processes
singular integral equations are obtained the solutions of which are the
sought mapping functions. The investigation is of formal character because
the existence of the solutions of the mentioned integral equations is
guaranteed under additional conditions only which are not considered by the
author. Some of the obtained integral equations can be solved by successive
approximation.

INSTITUTION:UZGOROD.

86189

S/140/60/000/005/016/021
C111/C222

16.3000

AUTHOR: Siryk, G.V.

TITLE: The Generalization of the Variation Formula of M.A. Lavrent'yev[b] for the Conformal Mapping of Little Different Simply Connected Regions to the Case of Doubly Connected Regions

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1960, No. 5, pp. 152 - 159

TEXT: At first the author considers an annulus $\frac{1}{\mu} < |z| < 1$ from which a little lune is separated the corners of which lie on $|z| = 1$ or on $|z| = \frac{1}{\mu}$. By a number of elementary conformal mappings the cut annulus is mapped at first onto a rectangle with a missing small semicircle, then onto a halfplane with a missing semicircle, then onto the whole halfplane, then onto a rectangle and finally onto a whole annulus. By neglecting the terms being small of higher order with respect to the area of the lune, the author obtains explicitly the function which performs the total mapping. If we have a doubly connected region being little different

Card 1/3

86189

The Generalization of the Variation Formula of M.A. Lavrent'yev for the Conformal Mapping of Little Different Simply Connected Regions to the Case of Doubly Connected Regions

from an annulus and bounded by

(23) $r_1(\varphi) = 1 - \delta_1(\varphi)$, $r_2(\varphi) = \frac{1}{\mu}(1 - \delta_2(\varphi))$, $0 \leq \varphi < 2\pi$

where

(24) $|\delta_i(\varphi)| < \varepsilon_i$, $|\delta_i'(\varphi)| < \varepsilon_i$, $|\delta_i''(\varphi)| < \varepsilon_i$, $i = 1,2$

then for the mapping onto an annulus the variation formula

$$w = z \left\{ 1 + i\frac{K}{\pi^2} \int_0^{2\pi} z_1 \left(-i\frac{K}{\pi} \ln z - \frac{K}{\pi}\varphi \right) \delta_1(\varphi)\,d\varphi \right.$$

$$\left. - i\frac{K}{\pi^2} \int_0^{2\pi} z_1 \left(i\frac{K}{\pi} \ln \mu z + \frac{K}{\pi}\varphi \right) \delta_2(\varphi)\,d\varphi \right\}$$

Card 2/3

25189
$5/140/60/000/005/016/021$
C111/C222

The Generalization of the Variation Formula of M.A. Lavrent'yev for the Conformal Mapping of Little Different Simply Connected Regions to the Case of Doubly Connected Regions

can be given which was already published by the author in (Ref. 4). Here $Z_1(u)$ is the Jacobian function, and K is a constant.

The author thanks Professor L.I. Volkovyskiy for the leading. There are 5 figures and 4 Soviet references.

ASSOCIATION: Uzhgorodskiy gosudarstvennyy universitet
              (Uzhgorod State University)

SUBMITTED: October 21, 1958

Card 3/3

SIRYK, G. V. Cand Phys-Math Sci -- "On the approximate conformal t~~ransformation~~ _reflection_ of ~~simply~~ _singly-bound_ and doubly-~~connected regions~~ _bound fields_." Uzhgorod, 1961 (Joint Academic Council of Insts of Phys, Math, and Metal Phys, Acad Sci UkSSR). (KL, 4-61,185)

-39-

S/044/62/000/008/069/073
C111/C333

16,3000

AUTHOR: Siryk, G. V.

TITLE: On the program for the approximative conformal mapping of
             double connected domains

PERIODICAL: Referativnyy zhurnal, Matematika, no. 8, 1962, 65,
             abstract 8V380. ("Dokl. i soobshch. Uzhgorodsk. un-t. Ser.
             fiz.-matem. n.", 1961, no. 4, 111-112)

TEXT: One proposes an operator scheme for the putting up of the
program for the solution of the non-linear algebraic equation system,
which is obtained in an approximative conformal mapping of the circular
ring on a double connected domain.

[Abstracter's note: Complete translation.]

Card 1/1

MARKO, M.E.; SIRYK, G.V.

    Standard program for approximate conformal mappings of doubly
connected regions. Dokl. i soob. UzhGU. Ser. fiz.-mat. i ist.
nauk no.5:101-103 '62.   (MIRA 17:9)

SIRYK, I.

Brief news. Izv. vys. ucheb. zav.; neft' i gaz 5 no.3:18,42,54,
84,62,94,102,108,114 '62.   (MIRA 16:8)

1. Zamestitel' direktora Sakhalinskogokompleksnogo nauchno-
issledovatel'skogo instituta Sibirskogo otdeleniya AN SSSR.

STASENKOV, V.V.; SIRYK, I.M.; RAZUMOV, N.V.

Oil and gas potentials of the western edge of the central Sakhalin synclinorium. Geol.i geofiz. no.12:7-13 '61.   (MIRA 15:5)

1. Sakhalinskiy kompleksnyy nauchno-issledovatel'skiy institut, g. Novo-Aleksandrovsk.
              (Sakhalin--Petroleum geology)
              (Sakhalin--Gas, Natural--Geology)

SIRYK, I.M.

Mud volcanoes in southern Sakhalin as probable satellites of
oil and natural gas fields. Geol. i geofiz. no.7:66-75 '62.
                                              (MIRA 16:7)

1. Sakhalinskiy kompleksnyy nauchno-issledovatel'skiy institut
Sibirskogo otdeleniya AN SSSR, Novo-Aleksandrovsk.
                (Sakhalin--Mud volcanoes)
                (Sakhalin--Petroleum geology)
                (Sakhalin--Gas, Natural--Geology)

SA

A 53
i

3190.   The polarization fluorescence of vapours of organic dyes. K. K. Sushkin, and N. G. Shnyelman, D. Al. Akad. Nauk. SSSR, 75 (No. 3) 1950.

Russian

Measurements were made of the degree of polarization of the fluorescent radiation excited in certain dyes by a super-high pressure Hg lamp. Both a Savart polariscope and a photographic method were used and the accuracy of the results was checked by examining the fluorescence of a glycerine solution of anthracene for which the degree of polarization was already known as a function of viscosity. The fluorescence from anthracene vapour at 100° was found to be 5 ± 3% polarized, but no polarization was detected for the vapours of rhodamine orange nor for certain phthalimides at about 160-300°.

SIRYUK, A.G.

USSR/ Chemistry - Spectroscopy

Card 1/1   Pub. 43 - 37/62

Authors   : Zimina, K. I.; Ioganson, A. V.; and Siryuk, A. G.

Title   : Application of infrared spectroscopy to the study of petroleum products

Periodical   : Izv. AN SSSR. Ser. fiz. 18/6, page 707, Nov-Dec 1954

Abstract   : Experiments were conducted to determine the applicability of the group struc-
tural analysis according to infrared absorption spectra to the study of gaso-
lines, kerosenes, oils and tarry substances (petroleum products). It was
determined that infrared spectroscopy can find broad application in the
analysis of petroleums in a wide range of molecular weights. Spectroscopy
offers greater perspectives in the study of simple hydrocarbon mixtures
than the quantitative analysis method.

Institution : Central Institute of Aviation Fuels and Lubricants

Submitted   : .....

SIRYUK. A.G

3

1277. **The structural analysis of petroleum products by infra-red absorption spectra.** K. I. Zimina, A. V. Iogansen and A. G. Siryuk. Report of Symposium "Metody Issledov. Neft. Nefteprodukt., M. gostoptekhizdat," 1955, 223–235; *Ref. Zhur. Khim.*, 1956, Abstr. No 36,217.—Several uses of infra-red spectroscopy are discussed. In particular it is shown that, of the samples of resinous substances from petroleum that were studied, a characteristic is the presence of $>C=O$ groups. In the deparaffinisation of kerosene by direct distillation of eastern petroleum with urea, both n- and isoparaffin hydrocarbons are obtained; in the deparaffinisation of kerosene from thermal cracking with urea, no removal of α-olefins takes place; unsaturated hydrocarbons of various types are obtained in the same proportions as in the original product. In petrol from catalytic cracking the following types of unsaturated hydrocarbons have been established—RR'C:CHR", *trans*-RHC:CHR' and RR'C:CH₂.

C. D. KOPKIN

Siryuk, A. G.

PRIKHOT'KO, A F

24(7)   p 3   PHASE I BOOK EXPLOITATION   SOV/1365

L'vov. Universytet

Materialy X Vsesoyuznogo soveshchaniya po spektroskopii. t. 1:
Molekulyarnaya spektroskopiya (Papers of the 10th All-Union
Conference on Spectroscopy. Vol. 1: Molecular Spectroscopy)
[L'vov] Izd-vo L'vovskogo univ-ta, 1957. 499 p. 4,000 copies
printed. (Series: Its: Fizychnyy zbirnyk, vyp. 3/8/)

Additional Sponsoring Agency: Akademiya nauk SSSR. Komissiya po
spektroskopii. Ed.: Jazer, S.L.; Tech. Ed.: Saranyuk, T.V.;
Editorial Board: Landsberg, G.S., Academician (Resp. Ed., Deceased),
Neporent, B.S., Doctor of Physical and Mathematical Sciences,
Pabelinskiy, I.L., Doctor of Physical and Mathematical Sciences,
Fabrikant, V.A., Doctor of Physical and Mathematical Sciences,
Kornitskiy, V.G., Candidate of Technical Sciences,
Candidate of Physical and Mathematical Sciences, Rayskiy, S.M.,
Candidate of Physical and Mathematical Sciences, Klimovskiy, L.K.,
Candidate of Physical and Mathematical Sciences, Miliyanchuk, V.S.,
A. Ye., Candidate of Physical and Mathematical Sciences, Glauberman,

Card 1/30

Card 18/30

SIRYUK, A.G.; ZIMINA, K.I.

Particular features of the ultraviolet spectra of certain types
of aromatic hydrocarbons. Khim.i tekh.topl.i masel 7 no.5:23-
26 My '62.   (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva.
              (Hydrocarbons--Spectra)

AUTHORS: Kusakov, M. M., Shimanko, N. A., Shishkina, M. V., Zimina, K. I., and Siryuk, A. G.

TITLE: Ultraviolet absorption spectra of aromatics

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26, no. 10, 1962, 1249-1252

TEXT: This paper deals with the rules governing the effect of saturated substituting groups on the absorption spectra of a number of mono- and bicyclic aromatics. It has been found that, according to the number and position of substitutes, the absorption spectrum of alkyl benzenes is shifted towards the long-wave region, and the absorption intensity maxima are intensified. In the case of cycloalkyl benzenes (naphthene-aromatic hydrocarbons) with a similar spectrum this shift is related to the substitution of cyclopentyl groups for the alkyl groups. The structure of indanes (hydrindenes), which show absorption spectra and which absorb 2-3 times more strongly than benzene, can be determined by comparing their spectra with those of corresponding alkyl-substituted benzenes and simple homologs of indane. The ultraviolet spectra of tetrahydronaphthalenes

Card 1/2

Ultraviolet absorption spectra...

(tetralines) follow the same laws as alkyl benzenes, cycloalkyl benzenes, and indanes. Diphenyls and benzenes have different spectra. Most m- and p-substituted diphenyl homologs are characterized by strong absorption and by the absence of a fine structure in the bands. The spectra of ortho-substituted diphenyl are subject to considerable changes. Diphenyl alkanes and alkyl diphenyl alkanes: The absorption spectra of several diphenyl methanes are similar to those of benzene. The spectra of aromatics with condensed rings show a specific character. Naphthalene has an absorption spectrum covering the range 2100-3300 Å and is characteristic of all naphthalene homologs. As the absorption spectra characteristic of polycyclic aromatics are hardly affected by substituting groups these are suitable for analytical purposes. An atlas (M. M. Kusakov, N. A. Shimanko, M. V. Shishkina, Ul'travioletovyye spektry pogloshcheniya aromaticheskikh uglevodorodov (Ultraviolet absorption spectra of aromatics), Izd. AN SSSR, M., 1962) was compiled for the practical application of ultraviolet spectroscopy. The ultraviolet spectra of mono- and bicyclic aromatics, graphically represented on the same scale and in terms of $\varepsilon = f(\lambda)$ or $\log \varepsilon = f(\lambda)$, were partly recorded by the present authors and partly taken from publications (American Petroleum Institute Research Project 44, Ultraviolet Spectral Data, 1958).
Card 2/2

S/065/63/000/002/006/008
E075/E436

AUTHORS: Siryuk, A.G., Zimina, K.I.

TITLE: Quantitative determination of some aromatic hydro-
            carbons by ultraviolet absorption spectra

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.2, 1963,
            52-56

TEXT: Naphthalene, phenanthrene and anthracene structural
groups were determined in petroleum vacuum distillates boiling up
to 350 to 400°C by ultraviolet spectroscopy.   The concentration of
the analyzed structural groups C_{str} in a given oil is determined
from its specific extinction coefficient.   For an oil containing
naphthalene, phenanthrene and anthracene hydrocarbons the specific
extinction coefficient is given by $k = K_n \cdot C_{an} + K_{ph} \cdot C_{aph} + K_a \cdot C_{aa}$
where C_{an}, C_{aph} and C_{aa} are the weight percents of naphthalene,
phenanthrene and anthracene structural groups in the oil, and
K_{ij} - the extinction coefficient of a structural group for
wavelength λ_j.   The absorption bands chosen were: 225 to 230 mμ
for naphthalenes, 225 mμ for phenanthrenes and 375 mμ for
anthracenes.   The content of each aromatic hydrocarbon in an oil
product can be thus approximately calculated if its mean molecular
Card 1/2

Quantitative determination ...

S/065/63/000/002/006/008
E075/E436

weight is known.   The method is unsuitable for the determination of benzene rings (mono-aromatics). The most accurate results are obtained for complex mixtures such as lubricating oils. Tetracyclic aromatics interfere in the determination, but little interference is caused by sulfides, thiophenes, mercaptans, disulfides and thioindanes.   It is expected that benzothiophenes will interfere.   The method requires only 0.1 g of sample and the analysis can be completed in 30 minutes.   There are 3 tables.

ASSOCIATION: VNII NP

Card 2/2

SIRYUK, A.G.; ZIMINA, K.I.

Quantitative determination of polycyclic aromatic hydrocarbons.
Trudy Kom.anal.khim. 13:359-366 '63.   (MIRA 16:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva.
    (Hydrocarbons)   (Cyclic compounds—Absorption spectra)

SIRYUK, A.G.; IOGANSEN, A.V.

Quantitative determination of aromatic rings in heavy
petroleum products according to the infrared absorption spectrum.
Trudy Kom.anal.khim. 13:393-399 '63.   (MIRA 16:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti i gaza i polucheniya iskusstvennogo zhidkogo topliva.
    (Aromatic compounds—Absorption spectra) (Petroleum products)

SIRYUK, A.G.; ZIMINA, K.I.

Quantitative determination of some aromatic hydrocarbons from their ultraviolet absorption spectra. Khim.i tekh.topl.i masel 8 no.2: 52-56 F '63.   (MIRA 16:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva.

SIRYUK, A.G.; ZIMINA, K.I.

Spectral-chromatographic determination of hydrocarbons with con-
densed aromatic rings in petroleum products. Neftekhimia 4
no.3:501-506 My-Je '64.   (MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti.

SIRYY, I.S., kand. tekhn.nauk

     Selecting methods of measuring in machinery repair. Mekh. sil'.hosp.
     11 no.8:22-23 Ag '60.   (MIRA 13:9)
         (Agricultural machinery--Maintenance and repair)

105-58-6-2/33

AUTHORS: Glebov, I.A., Candidate of the Technical   Sciences
            Kashtelyan, V.Ye., Engineer, Siryy, N.S., Engineer

TITLE: Electrical Braking of Synchronous Generators Connected
            to Longdistance Transmission Lines (Elektricheskoye
            tormozheniye sinkhronnykh generatorov, rabotayushchikh
            na dal'niye linii elektroperedach)

PERIODICAL: Elektrichestvo, 1958, Nr 6, pp. 7-10 (USSR)

ABSTRACT: In this paper the results of the investigation of the
            electrodynamic model of a trunk line of the type water-
            -power plant Kuybyshev-Moscow, are shown. The model
            generator had a rapidly effective excitation system and a
            powerful regulator. It was possible to connect the load
            resistances with the types of the generator as well as
            with the high-voltage lines. In order to be able to
            regulate the connecting and disconnecting of these
            resistances a special wiring diagram has been constructed.
Card 1/3   It could operate depending on time as well as depending

Electrical Braking of **Synchronous**. Generators Connected to Longdistance Transmission Lines

on the slip. In this case above all the electrical braking was investigated for the case of a shortest lagging time for the connecting of loading resistances in the existence of an automatic excitation control with small degree ($k = 1,5$). It is shown that a proper selection of the moments of connecting and disconnecting (of the loading resistances) guarantees a higher effectiveness of the electrical braking, even in the case of unknown amount of resistances and small degree of excitation. Such a control mechanism for connecting and disconnecting of the loading resistances can be realized according to the rotorslip of the synchronous generators, the size of which is determined by the character of the emergency conditions. The connecting takes place at a certain slip-value and the disconnecting in the case of a slip equal to zero, which corresponds to the moment when the rotor reaches the first maximal deviation. The following conclusions are drawn, based upon the investigation. 1) The electrical braking is most effective in combination with an automatic

Card 2/3

Electrical Braking of Syncronous Generators   105-58-6-2/33
Connected to Longdistance Transmission Lines

control of the excitation. No considerable degree of
excitation is needed for the increase of the dynamic
stability of distant transmission up to the level of static stability
The automatic excitation-control consists in this case
essentially in securing the static stability.
2.) The regulation-machanism proposed in this case, in
connecting and disconnecting of the load resistances allows
load resistances of constant power   and thus guarantees
the increase of the dynamic stability up to the level of
static stability   3.)
Taking into consideration that the application of both the
electrical and mechanical braking of synchronous motors
consists in the uptake of the surplus output of their rotors
in the case of emergency condition, the consequences

Card 3/3   mentioned here also essentially apply to mechanical braking.
                   There are 6 figures and 7 references, 4 of which are Soviet.
ASSOCIATION: Institut elektromekhaniki Akademii nauk SSSR
                   (Institute for Electromechanics of the AS USSR)
SUBMITTED: July 18, 1957

                   1. Power plants--Equipment   2. Generators--Control systems
                   3. Generators--Wiring diagrams

SIRYY, N.S.

BOBROV, V.M.; VORONOV, A.A.; GLEBOV, I.A.; IVANOV, V.I.; KARPOV, G.V.;
       KASHTELYAN, V.Ye.; SEMENOV, V.V.; SIROTKO, V.K.; SIRYY, N.S.;
       SUKHANOV, L.A.; URUSOV, I.D.; FETISOV, V.V.; FOMINA, Ye.N.;
       KOSTENKO, M.P., akademik, red.; DOLMATOV, P.S., red.izd-va;
       SMIRNOVA, A.V., tekhn.red.

       [Electrodynamic modeling of power engineering systems] Elektro-
       dinamicheskoe modelirovanie energeticheskikh sistem. Pod red.
       M.P.Kostenko. Moskva, 1959. 406 p.   (MIRA 13:2)

       1. Akademiya nauk SSSR. Institut elektromekhaniki.
          (Electric networks--Electromechanical analogies)

PHASE I BOOK EXPLOITATION   SOV/4706

Akademiya nauk SSSR. Institut elektromekhaniki

Sbornik rabot po voprosam elektromekhaniki, vyp. 4; Elektricheskiye mashiny, elektricheskiy privod, elektricheskaya tyaga i preobrazovateli, avtomatizirovannyy elektroprivod, avtomaticheskoye regulirovaniye i pribory (Collection of Works on Problems in Electromechanics, No. 4: Electric Machines, Electric Drive, A-C Electric Traction, Automated Electric Drive of Telescopes, Automatic Regulation and Instruments) Moscow, 1960, 282 p. 5,500 copies printed.

Resp. Ed.: V. V. Nikol'skiy; Ed. of Publishing House: I. V. Savvov; Tech. Ed.: I. I. Samoyev.

PURPOSE: This collection of works is intended for specialists in electromechanics.

COVERAGE: The collection contains 24 works divided into three sections: 1) Electric Machines, 2) Electric Drive and Electric Traction; 3) Automated Electric Drive, and Automatic Regulation and Instruments. No personalities are mentioned. References accompany most of the articles.

Bellovich, Ya. B.   Computation of Leakage From the Tips of the Teeth in Electric Machines   33

Adamov, L. A.   Special Features of Computation of No-Load Run Characteristics and of Certain Parameters of Standard Turbogenerators   57

Gruba, V. E., and O. K. Golin.   Computation of Short-Circuit Resistance of Standard Transformers   43

Bayukjian, A. Ye., and I. S. Ell'I.   Problem of Electric Braking of Synchronous Generators   56

Nayev, G. V.   Improvement in Accuracy of the Experimental Determination of Losses in Synchronous Machines   62

Bekharskiy, B. O.   Problem of Retaining the Magnetic Circuit of an Electric Motor Rim of Technological Steel   76

Ozadin, L. P.   Damping Moment of Salyan Harmonics in an Induction System of Synchronous Transmission With a Commutator Generator   82

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Kamilionts, B. A., and L. F. Sumskiy.   Electronic-Ionic Converter of Single-Phase Current at Commercial Frequency Into Three-Phase Current, at Variable Frequency for Speed Regulation of Induction Electric Motors   92

Nakhov, L. I., and V. K. Paev'ov.   Resolution of Excitation Circuits of D-C Engines in Electrodynamic Simulation of Drive Systems   105

Kalashnikov, Yu. M.   Distribution of Flux Density in the Air Gap of Multistage Longitudinal-Field Rotating Amplifiers   112

Rakhmaninov, V.   General Rules and Models of Investigating Steady and Transient Conditions in a Circuit of Single-phase Mercury-Arc Rectifier of an Electric Locomotive   122

Zakharevich, S. M., and L. A. Glinn.   Investigation of Transients in the Circuit of a Single-Phase Mercury-Arc Rectifier of an Electric Locomotive During Recharge and Misfiring of Rectifier Tubes   134

Lundin, Ya. N.   Single-Phase Series Commutator Traction Motor Fed on an Electric Locomotive and Electric Motor-Car Train   148

SIRYY N. S.

Collected Papers (Contr) Sbornik rabot po voprosam elektromekhaniki SOV/4172 vyp. 3:
    Energeticheskiye sistemy, elektromashinostroyeniye, elektricheskaya tyaga,
TABLE OF CONTENTS: avtomatizirovannyy elektroprivod, avtomaticheskiye i
    telemekhanicheskiye sistemy, elektrosvarochnoye oborudovaniye . Moscow, Izd-vo
    AN SSSR, 1960.   314p.   POWER SYSTEMS
    publ. from Institut elektromekhaniki
Glebov, I.A. Operation of the Electronic Self-Excitation System of a Synchronous
Generator in the Presence of Asymmetrical Faults [Short Circuits]   3
    The author deals with single-and two-phase short circuits and two-phase
    shorts; he describes experimental testing of voltage balancing, the operation
    of an electronic converter under asymmetrical voltage conditions, and the
    special design features of a synchronous generator with electronic self-exci-
    tation for both steady and transient conditions.

Glebov, I.A., V.Ye. Kashtelyan, and N.S. Siryy. Improving the Dynamic Stabili-
ty of Long-Range Electric Transmission by Means of Electric Braking of Syn-
chronous Generators   15
    The author describes tests on electric braking of synchronous generators
    using a model of the Volzhskaya GES-Moscow transmission line. They
    conclude that electrical braking is most efficient when combined with au-
    tomatic control of the excitation.

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SIRYY, N.S.

report to be presented at the 1st Intl Congress of the Intl Federation of Automatic Control, 25 Jun-5 Jul 1960, Moscow, USSR.

BYKHOVSKIY, M. L. - "Ultra stability in electronic calculating devices in the solution of nonlinear equations in indefinite form"

CHKALOVSKIY, A. B. - "Use of calculating devices in systems for the automatic control of rolling mills"

CHICHINADZE, V. K. - "Concerning some problems of the organization of self-adjusting and self-teaching systems of automatic control, based on principles of random search"

DAVYDOV, N. I. - "Development of automatic control systems for boiler units"

DUDNIKOV, Ye. G. - "Determination of optimum adjustances of industrial automatic regulation systems according to initial data obtained from experience"

DUDIN, A. I., and SCHWARTSER, E. D. - "Methods of organizing logarithmic functions in the theory of nonlinear regulating system"

DRUZHININ, N. N. - "Balanced regulation and inter-communications of a multi-motor electric drive and technology in continuous rolling mills"

FEL'DBAUM, A. A. - "Problems of statistical theory of automatic optimization systems"

PETOV, V. I. - "Automation of a reversible cold rolling mill for nonferrous metals"

FILIPOV, A. F. - "Application of the theory of differential equations with discontinuous right side to nonlinear problems of automatic regulation"

GAVRILOV, M.A. - "Structural surplus and operational reliability of relay devices"

GAVRILOV, M. A. - "Automation of irrigation system"

GNEDENKO, G. B., PUSTYLNIK, V. E., MOSKYO, M. F., MEDVAS, L. R., et al. - "Power regulation of disturbance and problems of the stability of electric power systems"

GINZBURG, S. A. - "Logical method of synthesis of functional converters"

IL'IN, V. A. - "Methods of transmission of information and the structure of telemechanical systems for dispersed structures"

IVAKHNO, V. L., and LUTSKIY (Sm.) - "The code-impulse system of tele-measurement for dispatched operations of trunk-line gas pipe lines"

IVANCHENKO, A.G. - "Concerning the application of the theory of combined regulation systems for cybernetic adaptation systems"

FARANENKO, L. B., and SHVARENZER, G. A. - "A quasi-equilibrated bridge as an element in a system of automatic control"

SOLADVIN, V. V. - "Concerning the process of extra regulation of inert objects in the presence of disturbance"

SOLADOV, I. M. - "Some problems of the theory of statistical linearization and its application"

KILL, P. M. - "Some problems of the theory of impulse systems with time selectors"

KUSHENSKIY, A. E., BULGAKOV, B. V., VOSKOBOYNIKOV, L.M., IOFFE, B. M., POLAK, M. P., POPOV, B. F., SLAVINSKIY, Ye. L., SYEK, A. Ye., and YARMIAS (Sm. S. - "The problem of bioelectric control"

KOLOMIETS, B.T. - "New types of photo resistances and their field of use"

KOROBKO, N.I., MIRKINOV, B. G., and SMUKLOV, K. A. - "System of automatic control and regulation of blast distribution in the systems of blast furnace"

KOMISSARUK, B. L. - "Investigation of the dynamics of the hydraulic duct of a copying lathe"

KRASOVSKIY, A. A. - "Dynamics of continuous systems of automatic regulation with extra self-adjustment of corrective devices"

KRASOVSKIY, N. N. - "Concerning the selection of parameters of optimum stability systems"

KUKHTENKO, A. I. - "The dynamics of devices imitating living organisms"

KULEBAKIN, V. S. - "The invariant theory of automatic regulation and control systems"

LAKH, I. D. - "Pneumatic calculating devices as a means of insuring the reliability of complex automation systems"

LAZAREV, V. G., and PIROGCHENKO, P.P. - "Mechanization of processes of analysis and synthesis of the structure of relay devices"

SIRYY, N. S.,   GERTSENBERG, G. R., KASHTELYAN, V. E., and KOSTENKO, M. P.

"Intense Field Control and New Stability Problems, of Electric Power Systems."

paper presented at the International Federation of Automatic Control Congress,
Moscow, 25 Jun - 5 Jul 60.

GLEBOV, I.A.; KASHTELYAN, V.Ye.; SIRYY, N.S.

Increase in the dynamic stability of long-distance electric trans-
mission by electric braking of synchronous generators. Sbor.rab.
po vop.elektromekh. no.3:15-35 '60.   (MIRA 13:8)
            (Electric generators)
            (Electric power distribution)

GLEBOV, I.A. (Leningrad); KASHTELYAN, V.Ye.(Leningrad); SIRYY, N.S. (Leningrad)

Effect of hydrogenerator parameters on the stability of long-distance electric transmission. Izv.AN SSSR. Otd.tekh.nauk. Energ. i avtom. no.5:3-14 S-0 '60.   (MIRA 13:11)
    (Hydroelectric power stations) (Electric power transmission)

GERTSENBERG, G.R.; GLINTERNIK, S.R.; KASHTELYAN, V.Ye.; MICHAYEV, V.V.;
    NOVITSKIY, V.G.; SIRYY, N.S.

Study of the parallel operation of electric current generators
feeding two electric power systems via a.c. and d.c. power
transmission lines. Sbor. rab. po vop. elektromekh.   no.6:17-36
'61.   (MIRA 14:9)
     (Electric power distribution) (Electric generators)

KASHTELYAN, V.Ye.; SIRYY, N.S.

Study of the mutual vibrations of synchronous generators in parallel operation. Sbor. rab. po vop. elektromekh. no.6:69-84 '61.
(MIRA 14:9)

(Electric generators) (Electric power distribution)

BOBROV, V.M., inzh.; GLEBOV, I.A., kand.tekhn.nauk; KASHTELYAN, V.Ye., inzh.; SIRYY, N.S., inzh.; GERTSENBERG, G.R., kand.tekhn.nauk

Effect of excitation systems on the stability of the parallel operation of large turbogenerators. Elektrichestvo no.7:7-13 Jl '61.   (MIRA 14:9)

1. Institut elektromekhaniki AN SSSR (for Bobrov, Glebov, Kashtelyan, Siryy). 2. Vsesoyuznyy elektrotekhnicheskiy institut (for Gertsenberg).
                         (Turbogenerators)

KOSTENKO, M.P., akademik; NEYMAN, L.R.; GLINTERNIK, S.R., kand.tekhn. nauk; KASHTELYAN, V.Ye., inzh.; NOVITSKIY, V.G., inzh.; SIRYY, N.S., inzh.; GERTSENBERG, G.R., kand.tekhn.nauk

Automatic control and stability during parallel operation of the generators of an electric power plant feeding a.c. and d.c. power transmission lines. Elektrichestvo no.10:1-9 O '62.

(MIRA 15:12)

1. Institut elektromekhaniki AN SSSR (for Kostenko, Neyman, Glinternik, Kashtelyan, Novitskiy, Siryy). 2. Vsesoyuznyy elektrotekhnicheskiy institut (for Gertsenberg). 3. Chlen-korrespondent AN SSSR (for Neyman).

(Electric power distribution)

SIRYY, N.S.

Regulation of the excitation of synchronous generators with consideration of frequency. Sbor.rab.po vop.elektromekh.no.8:108-117 '63.

(MIRA 16:5)

(Electric generators)   (Electric power distribution)

SIRYY, N.S.; OSTROUMOV, E.Ye.; SNITKC, L.P.

Effect of T_e and T_{do} time constants on the dynamic stability of an electric power transmission system. Sbor.rab.po vop.elektromekh.no. 8:161-167 '63.

(MIRA 16:5)

(Electric power distribution)

KASHTELYAN, V.Ye.; SIRYY, N.S.

Study of the parallel operation of long-distance power trans-
mission lines with a common receiving system. Sbor. rab. po
vop. elektromekh. no.10:137-145 '63.   (MIRA 17:8)

SIRYY, N.S.

Joint regulation of excitation with consideration of frequency
and angle of the synchronous generator. Sbor. rab. po vop.
elektromekh. no.10.145-152 '63.   (MIRA 17:8)

L 60209-65   EWT(d)/EPF(n)-2/EWP(v)/EWP(k)/EWP(h)/EWP(1)   Po-4/Pq-4/Pf-4/Pg-4/
Pae-2/Pu-4/Pk-4/P1-4   IJP(c)   WW/GS/BC

ACCESSION NR: AT5013560   UR/0000/64/000/000/0115/0120

AUTHOR: Diduk, G. A.; Yesipov, V. M.; Siryy, N. S.; Filatova, E. P.

TITLE: Plotting stability regions of automatic-control systems by digital computers

SOURCE: AN SSSR. Institut elektromekhaniki. Avtomatika, telemekhanika i priborostroyeniye (Automatic control, remote control, and instrument manufacture). Moscow, Izd-vo Nauka, 1964, 115-120

TOPIC TAGS: automatic control, automatic control design, automatic control system, automatic control theory, digital computer, power system stability

ABSTRACT: The results are reported of an investigation of the stability of an excitation-control system which controls the operation of synchronous generators feeding, via a transmission system, into infinite-power buses (Volga Hydroelectric Station to Moscow). After a linearization, the control system was describable by 7th order differential equations. The stability regions of the frequency-control factor K_f^0 and its first derivative K_f^1 were plotted in a two-

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ACCESSION NR: AT5013560

parameter plane. The plotting was performed by the V. I. Zubov method (see Abstract AT5013559) and was verified by direct computation of all roots of the characteristic equation. Four stability regions corresponding to various stability degrees (0, 0.25, 0.5, 0.75) were plotted. The stability-region boundaries were determined by dissecting the plane of $K_f^0 - K_f^1$ factors with the straight lines parallel to the x-axis. The plots show that, for increased stability degrees, the regions contract irregularly; a comparison of the plots for transmission angles of 66^0 and 105^0 shows that the stability regions become essentially narrower with increasing transmitted power; these factors are important for selecting the voltage-regulator settings. Orig. art. has: 2 figures and 4 formulas.

ASSOCIATION: none

SUBMITTED: 24Oct64   ENCL: 00   SUB CODE: IE, DP

NO REF SOV: 005   OTHER: 000

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ARAKCHEYEV, A.A.; BEREZIN, S.P.; BELYAVSKIY, V.A.; KOLOTILOV, A.N.;
      MOLOKANOV, S.I.; NEKRASOV, A.M.; LAVRENENKO, K.D.; POLENTSEV, M.K.;
      ROZHDESTVENSKIY, A.P.; SATANOVSKIY, A.Ye.; SIRYY, P.O.; SPIRIDONOV,
      K.A.; CHERNYSHEV, P.S.; SHUBENKO-SHUBIN, L.A.

      Savva Mikhailovich Zherbin; obituary. Elek.sta. 30 no.2:96 F
      '59.   (MIRA 12:3)
                  (Zherbin, Savva Mikhailovich, 1903-1958)

YATSENKO, Valentin Semenovich; SIRYY, Yu.Yu., red.; SERKO, G.S., red. izd-va;
    LAVRENOVA, N.B., tekhn. red.

[Design of marine shafting and ways of improving it] Konstruktsiia
sudovykh valoprovodov i puti ee uluchsheniia. Moskva, Izd-vo
"Morskoi transport," 1958. 38 p.   (MIRA 11:7)
                        (Shafting)   (Marine engines)

SUSHKOV, B.B., inzh.; SIRYY, Yu.Yu., inzh.

Train ferry to be used on the Caspian Sea. Zhel. dor. transp. 41
no.4:56-57 Ap '59.   (MIRA 12:6)
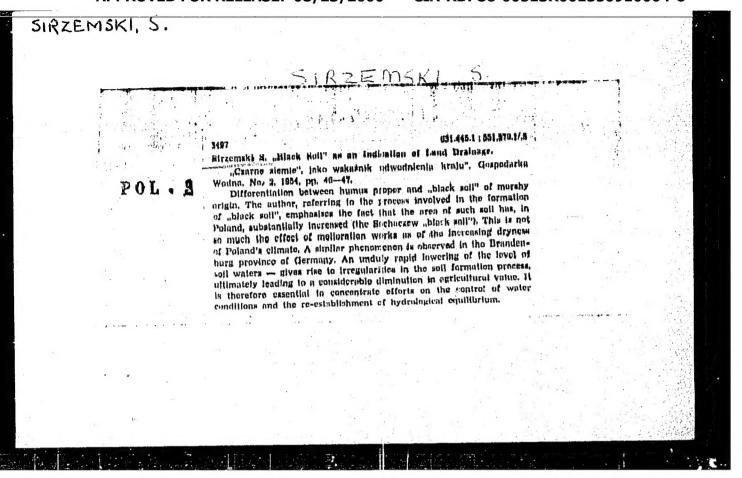(Caspian Sea—Train ferries)

SIRYY, Yu Yu

PHASE I BOOK EXPLOITATION   SOV/4931

Kostyamin, Boris Nikolayevich, Il'ya Il'ich Kichkin,
    Yuriy Yur'yevich Siryy, and Boris Borisovich Sushkov.

Primeneniye ul'trazvuka na morskom transporte (Use of Ultrasound
    in Marine Transportation) Moscow, Izd-vo "Morskoy transport,"
    1960. 60 p. 3,200 copies printed.

Ed.: V. Ye. Kazakevich; Ed. of Publishing House: Z. D. Ivanova;
    Tech. Ed.: B. A. Sarayev.

PURPOSE: This booklet is intended for those interested in the
    application of ultrasonics to the metallurgical and mechanical
    engineering aspects of shipbuilding.

COVERAGE: The booklet presents the fundamentals of the theory of
    ultrasonics and the use of ultrasonics in shipbuilding and
    marine maintenance. No personalities are mentioned. There are
    21 references: 19 Soviet, and 2 English.

TABLE OF CONTENTS:

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SIRZEMSKI, S.

SIRZEMSKI S.

POL. 2

3487   031.445.1 : 551.579.1/.5

Sirzemski S. „Black Soil" as an Indication of Land Drainage.
„Czarne ziemie", jako wskaźnik odwodnienia kraju", Gospodarka
Wodna, No. 2, 1954, pp. 40—47.

Differentiation between humus proper and „black soil" of marshy
origin. The author, referring to the process involved in the formation
of „black soil", emphasises the fact that the area of such soil has, in
Poland, substantially increased (the Sochaczew „black soil"). This is not
so much the effect of melioration works as of the increasing dryness
of Poland's climate. A similar phenomenon is observed in the Branden-
burg province of Germany. An unduly rapid lowering of the level of
soil waters — gives rise to irregularities in the soil formation process,
ultimately leading to a considerable diminution in agricultural value. It
is therefore essential to concentrate efforts on the control of water
conditions and the re-establishment of hydrological equilibrium.

BARGLAZAN, A. [deceased]; SISAK, E.; POPA, O.

Plane network of MHT 8406 thin profiles. Pt.1. Studii tehn
Timisoara 7 no.3/4:179-185 Jl-D '60.

1. Membru corespondent al Academiei R.P.R. (for Barglazan).

BARGLAZAN, A. [deceased]; PREDA, I.; SISAK, E.; BUDISAN, N.

Automatic hydroelectric apparatus for the microhydroelectric-
power plant of Negoiu. Studii tehn Timisoara 8 no.3/4:195-209
Jl-D '61.